

Chameleon Compact OPO

Automated Wavelength Extension for Chameleon Ti:Sapphire Lasers

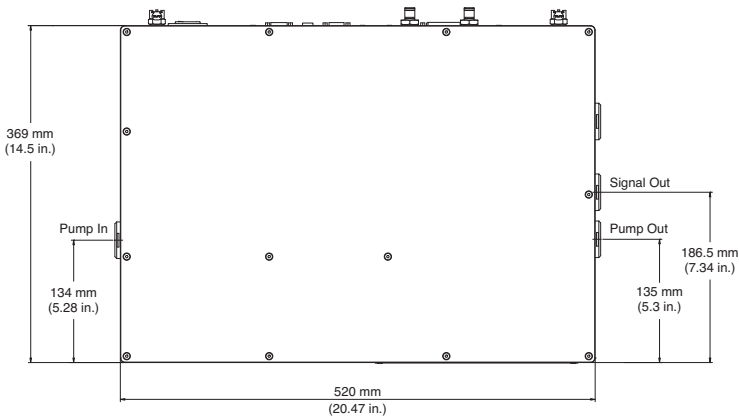


Features

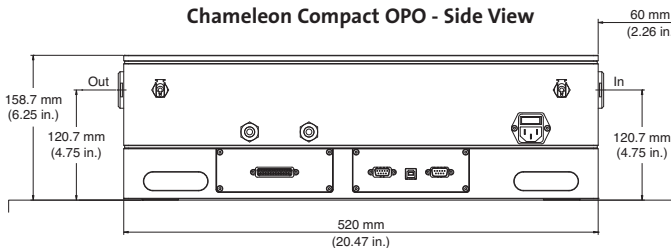
- Automated hands-free wavelength tuning
- Independent wavelength tuning of both laser and OPO
- Two output ports for Ti:Sapphire and OPO
- Fan poled OPO crystal for flexible pump wavelength tuning
- Full tuning range without change of optics or re-alignment
- Gap-free overlap with edge of Ultra II tuning range
- USB and RS-232 control
- Optimized for pumping with the Chameleon Ti:Sapphire family
- Effortless tuning over water absorption bands
- Idler option available
- Remote service facility

Mechanical Specifications

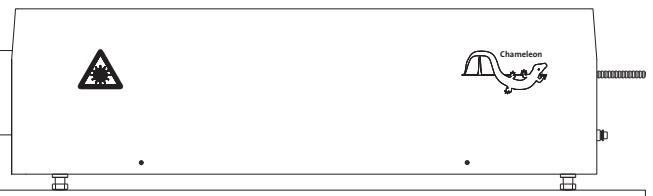
Chameleon Compact OPO - Top View



Chameleon Compact OPO - Side View



Chameleon - Side View



Chameleon and Chameleon Compact OPO Table Layout

Superior Reliability & Performance

Chameleon™ Compact OPO

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System Specifications

	Pumped by Chameleon Ultra II	Pumped by Chameleon Vision II
Tuning Range ¹ (nm)	1000 to 1600	1000 to 1350
Pump Wavelength Range (nm)	740 to 880	760 to 880
Output Power, Signal ² (mW)	>700	>700 ³
Pump Output Power Available ⁴ (%) when pumping OPO in bypass mode		~15 ~95
Pulsewidth (fs)(typical)		200
M ² (typical)		1.1
Beam Diameter (mm)		2
Beam Divergence (mrad)(typical)		0.5
Polarization		Horizontal
Repetition Rate (MHz)		80, locked to pump laser
Dimensions (L x W x H)		520 x 369 x 158 mm (20.5 x 14.5 x 6.2 in.)

Idler Option

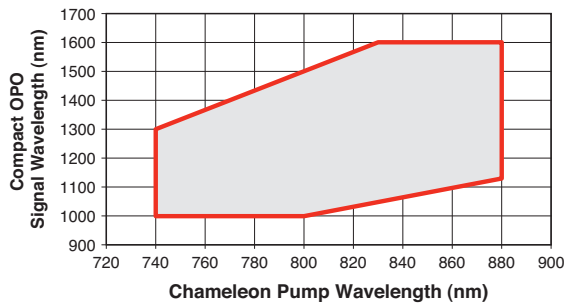
Additional Tuning Range ^{1,5} (nm)	1750 to 4000
Idler Output Power ⁶ (mW)	>100

Max IR Option

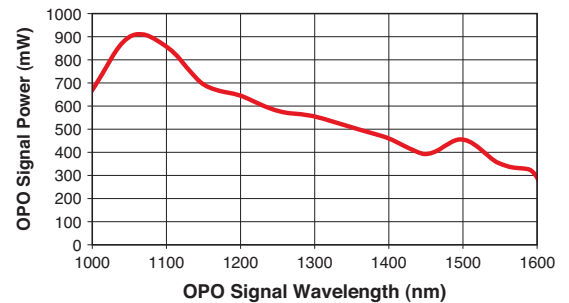
Additional Signal Output Power ⁷ (%)	15
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- ¹ Tuning range depends on Pump Wavelength.
- ² At maximum of pump and OPO signal tuning curve.
- ³ Vision Dispersion settings optimized for OPO.
- ⁴ Typical. Please refer to Chameleon datasheet for respective power specifications. Pump output not available with Max IR option.
- ⁵ In addition to OPO signal output range. All other specifications are unaffected.
- ⁶ At maximum of pump and OPO idler tuning range .
- ⁷ No access to pump beam.

Chameleon Ultra II and Compact OPO Tuning Range



Chameleon Compact OPO Typical Output Power



Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Chameleon systems. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

Coherent, Inc.
5100 Patrick Henry Drive
Santa Clara, CA 95054
phone (800) 527-3786
(408) 764-4983
fax (408) 764-4646
e-mail tech.sales@Coherent.com

Benelux +31 (30) 280 6060
China +86 (10) 8215 3600
France +33 (0)1 8038 1000
Germany +49 (6071) 968 333
Italy +39 (02) 31 03 951
Japan +81 (3) 5635 8700
Korea +82 (2) 460 7900
UK +44 (1353) 658 833

